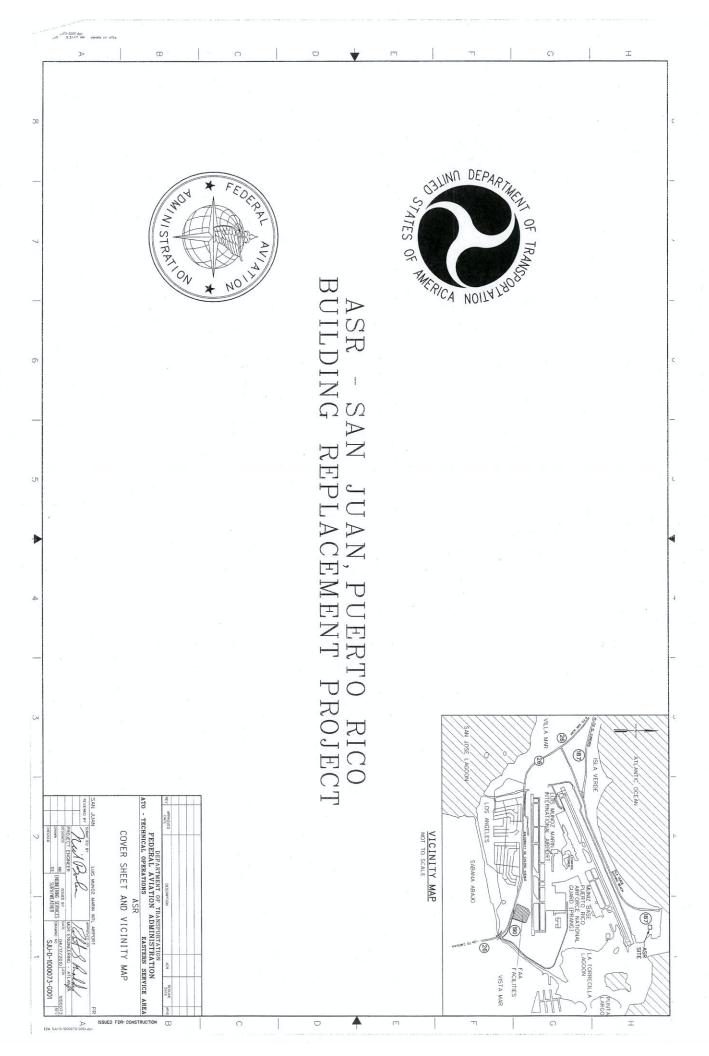
Attachment 2-B

Drawings

Solicitation No.: DTFAEN-11-R-00060

Construction of the

Airport Surveillance Radar-8 (ASR-8) Building Replacement Project Luis Munoz Marin International Airport San Juan, Puerto Rico



LIST OF DRAWINGS

CONSTRUCTION OF THE AIRPORT SURVEILLANCE RADAR-8 BUILDING REPLACEMENT PROJECT

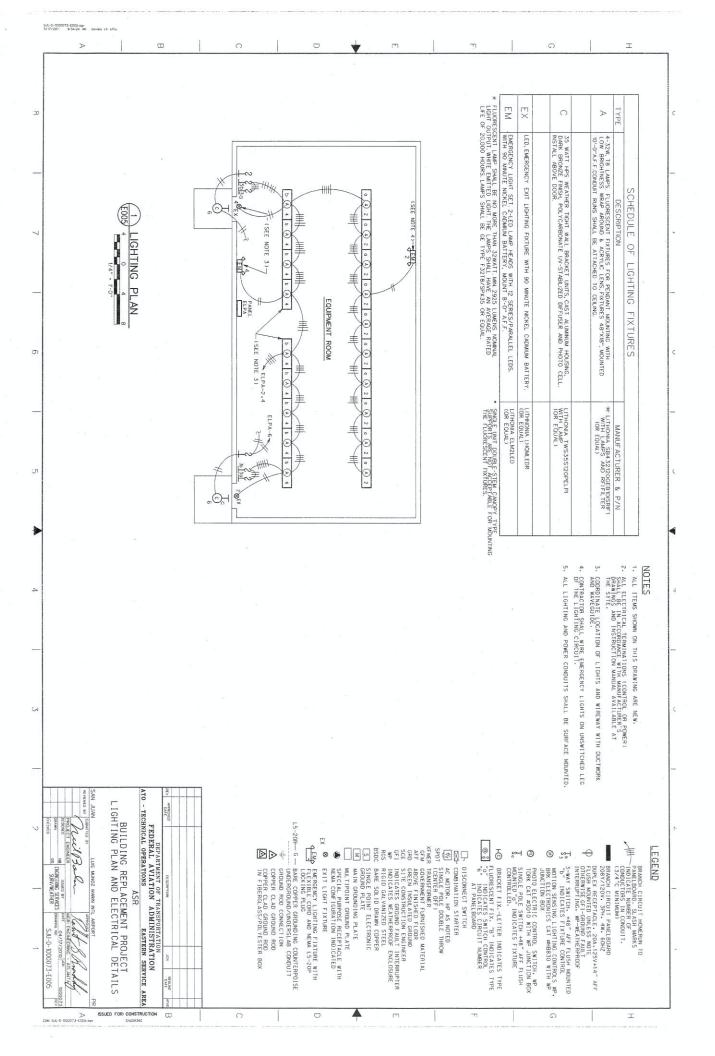
LUIS MUNOZ MARIN INTERNATIONAL AIRPORT SAN JUAN, PR

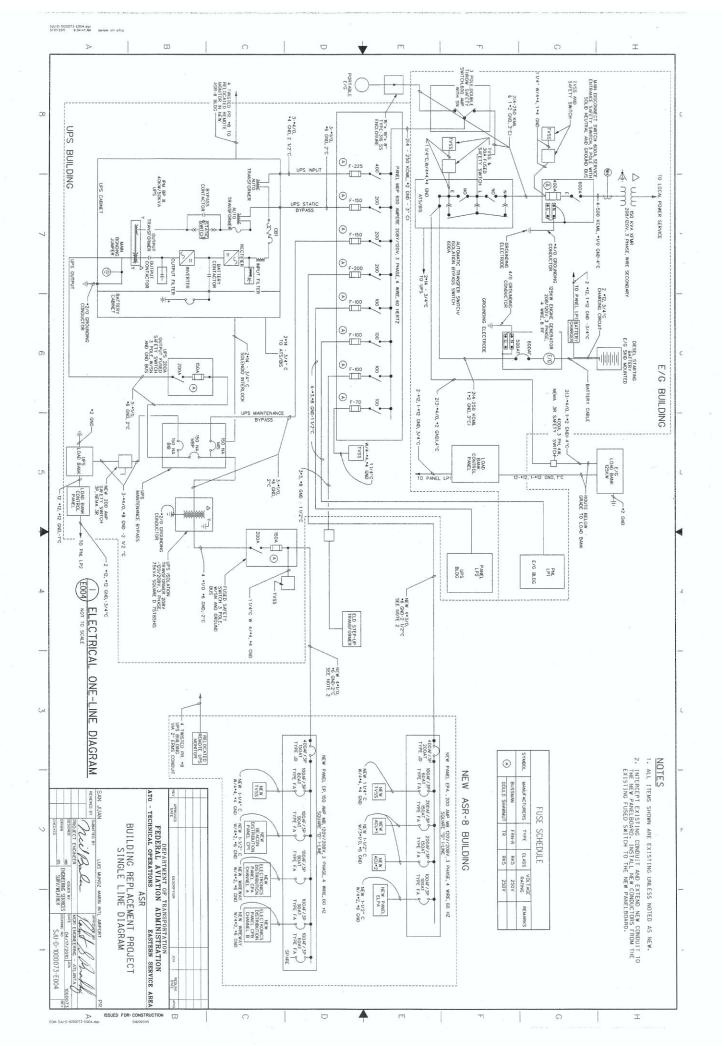
<u>Number</u>	<u>Date</u>	No. of <u>Pages</u>	<u>Title</u>
SJU-D-100073-G001	04/17/2010) 1	ASR Building Replacement Project Cover Sheet and Vicinity Map
SJU-D-100073-G002	04/17/2010	0 1	ASR Building Replacement Project Drawing Index Sheet
SJU-D-100073-D001	04/17/2010	0 1	ASR Building Replacement Project Demolition Site Plan
SJU-D-100073-D002	04/17/2010	0 1	ASR Building Replacement Project Demolition Plan
SJU-D-100073-C001	04/17/2010	0 1	ASR Building Replacement Project Site Plan
SJU-D-100073-C002	04/17/2010) 1	ASR Building Replacement Project Site Details and Sections
SJU-D-100073-C003	04/17/2010) 1	ASR Building Replacement Project Waveguide Sections and Ductbank Details
SJU-D-100073-A001	04/17/2010) 1	ASR Building Replacement Project Building Plan and Wall Openings
SJU-D-100073A002	04/17/2010) 1	ASR Building Replacement Project Building Elevations
SJU-D-100073A003	04/17/2010) 1	ASR Building Replacement Project Sections and Details 1 of 2
SJU-D-100073A004	04/17/2010) 1	ASR Building Replacement Project Sections and Details 2 of 2
SJU-D-100073E001	04/17/2010) 1	ASR Building Replacement Project Electrical Site Plan

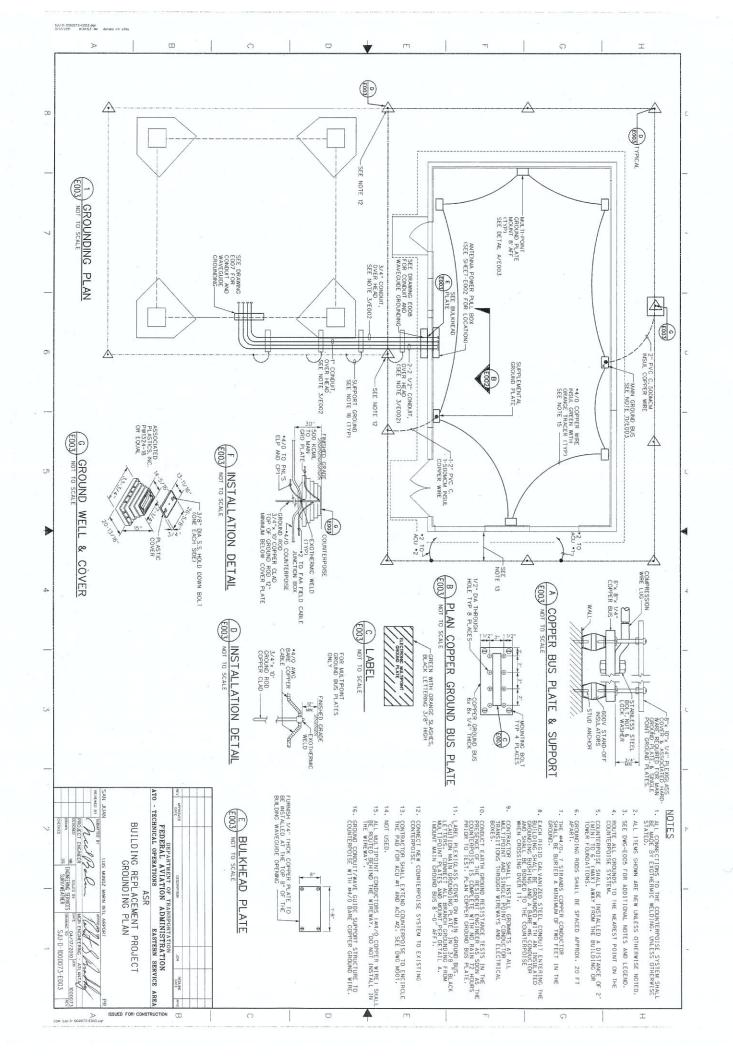
SJU-D-100073E002	04/17/2010	1	ASR Building Replacement Project Electrical Power Plan
SJU-D-100073E003	04/17/2010	1	ASR Building Replacement Project Grounding Plan
SJU-D-100073E004	04/17/2010	1	ASR Building Replacement Project Single Line Diagram
SJU-D-100073E005	04/17/2010	1	ASR Building Replacement Project Lighting Plan and Electrical Details
SJU-D-100073E006	04/17/2010	1	ASR Building Replacement Project Panel Schedules
SJU-D-100073E007	04/17/2010	1	ASR Building Replacement Project Electrical Details and Schedules Sheet 1 of 2
SJU-D-100073E008	04/17/2010	1	ASR Building Replacement Project Electrical Details and Schedules Sheet 2 of 2
SJU-D-100073-E009	04/17/2010	1	ASR Building Replacement Project Earth Ground Resistance Testing Instructions and Procedures
SJU-D-100073-E010	04/17/2010	1	ASR Building Replacement Project Stairway and Landing Power and Lighting Modification Notes and Details
SJU-D-100073-E011	04/17/2010	1	ASR Building Replacement Project P2A, Dec 550, PM340, and M340 Connections for ERMS
SJU-D-100073-E012	04/17/2010	1	ASR Building Replacement Project ERMS Panels P1, P3, P4, and P5 Interconnection Diagram
SJU-D-100073-E013	04/17/2010	1	ASR Building Replacement Project ERMS Panels Floor Plan
SJU-D-100073M001	04/17/2010	1	ASR Building Replacement Project Building HVAC Plans and Sections
SJU-D-100073M002	04/17/2010	1	ASR Building Replacement Project Mechanical Schedules
SJU-D-100073S001	04/17/2010	1	ASR Building Replacement Project Foundation Plans and Details

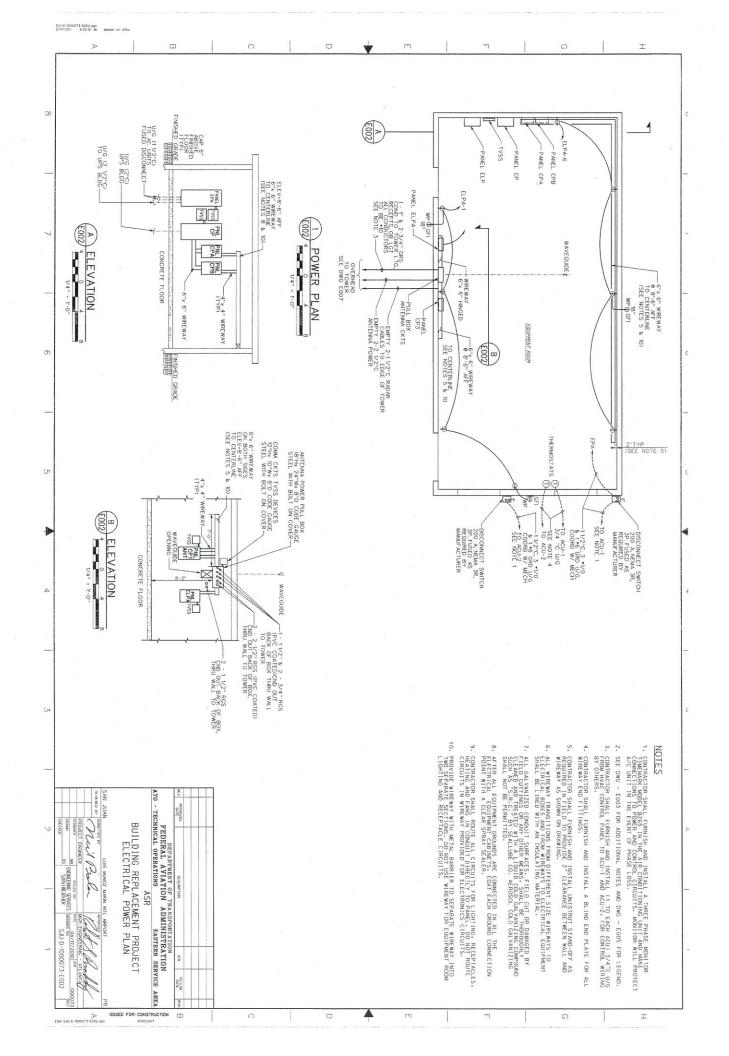
SJU-D-100073-S002	04/17/2010	1	ASR Building Replacement Project Miscellaneous Foundation Plans and Details
SJU-D-100073-S003	04/17/2010	1	ASR Building Replacement Project Concrete Roof Reinforcing Plan and Sections

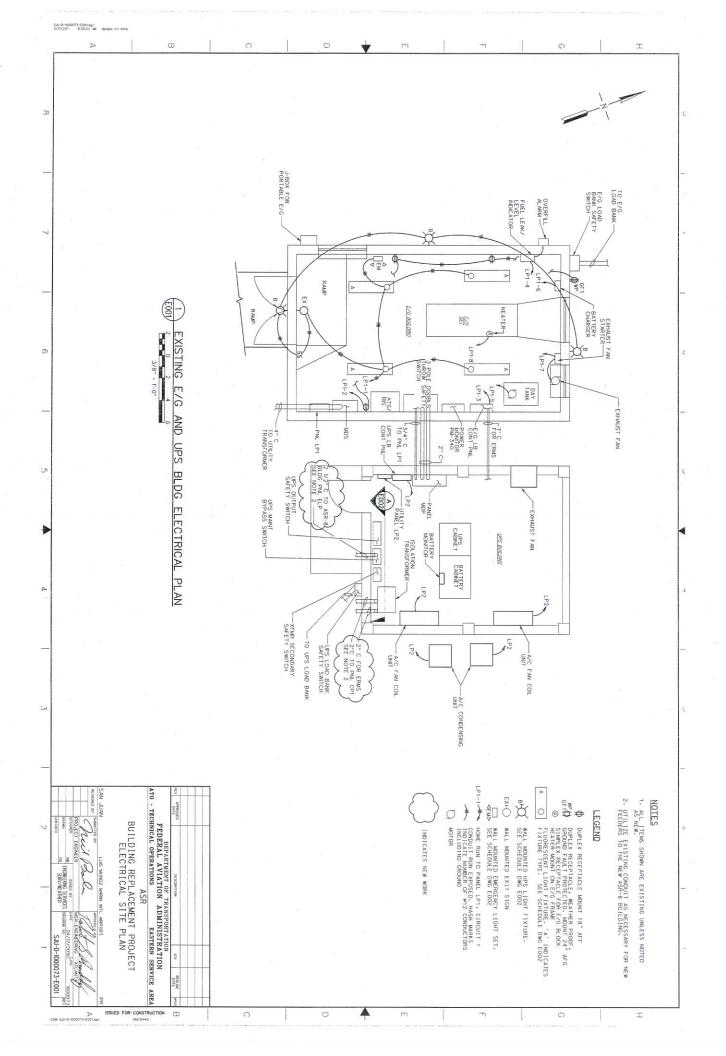
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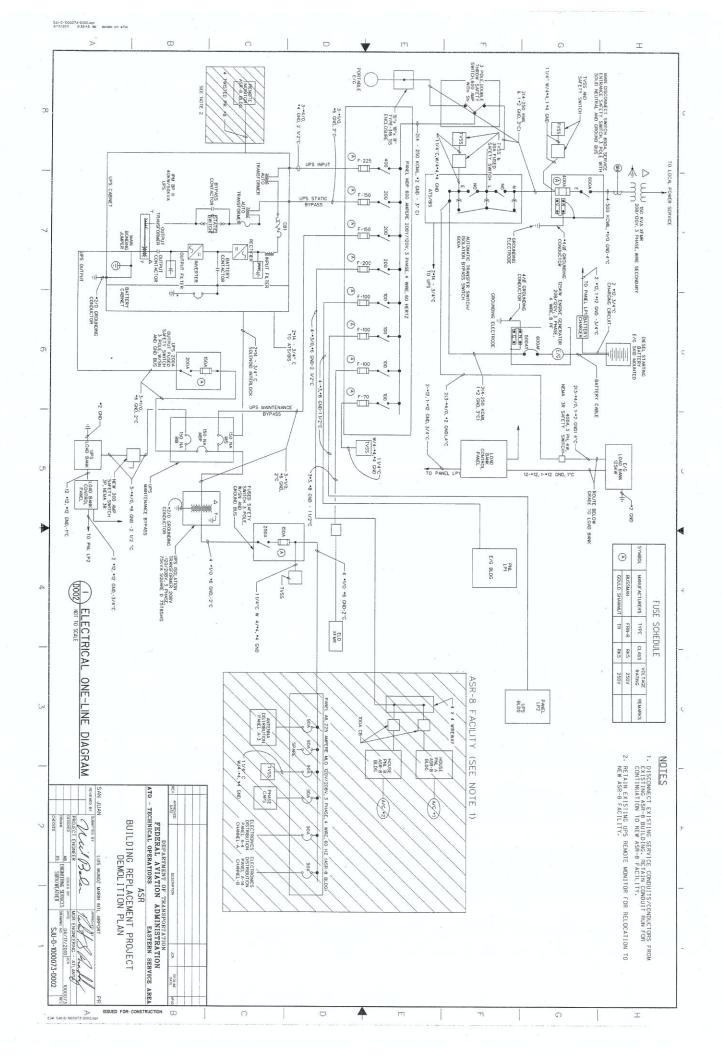


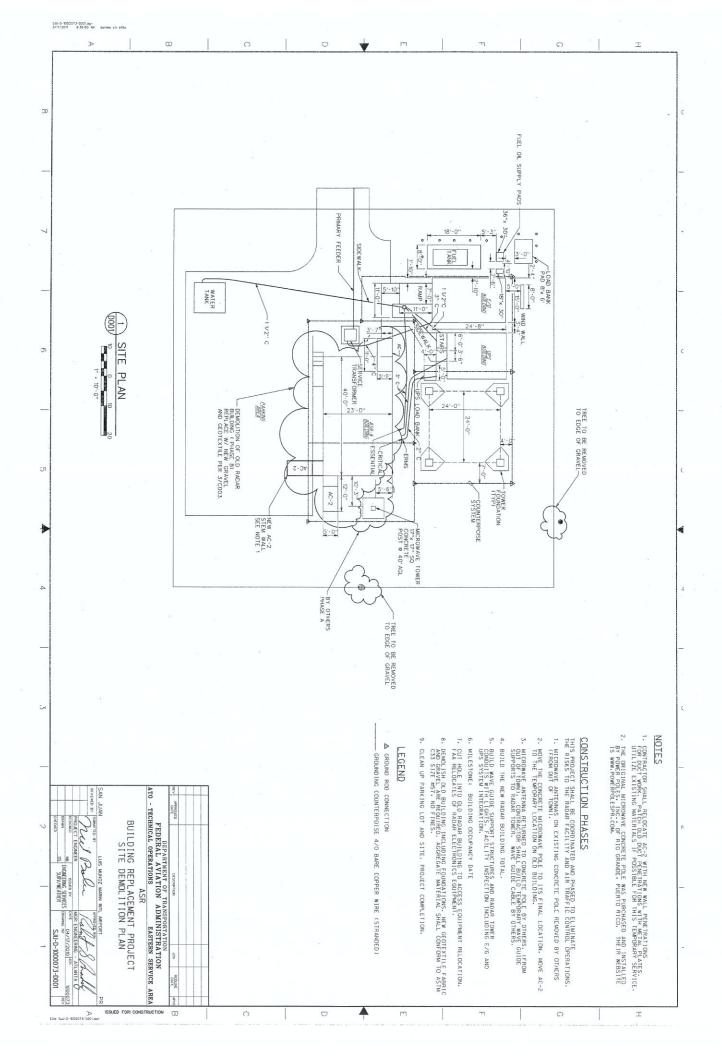


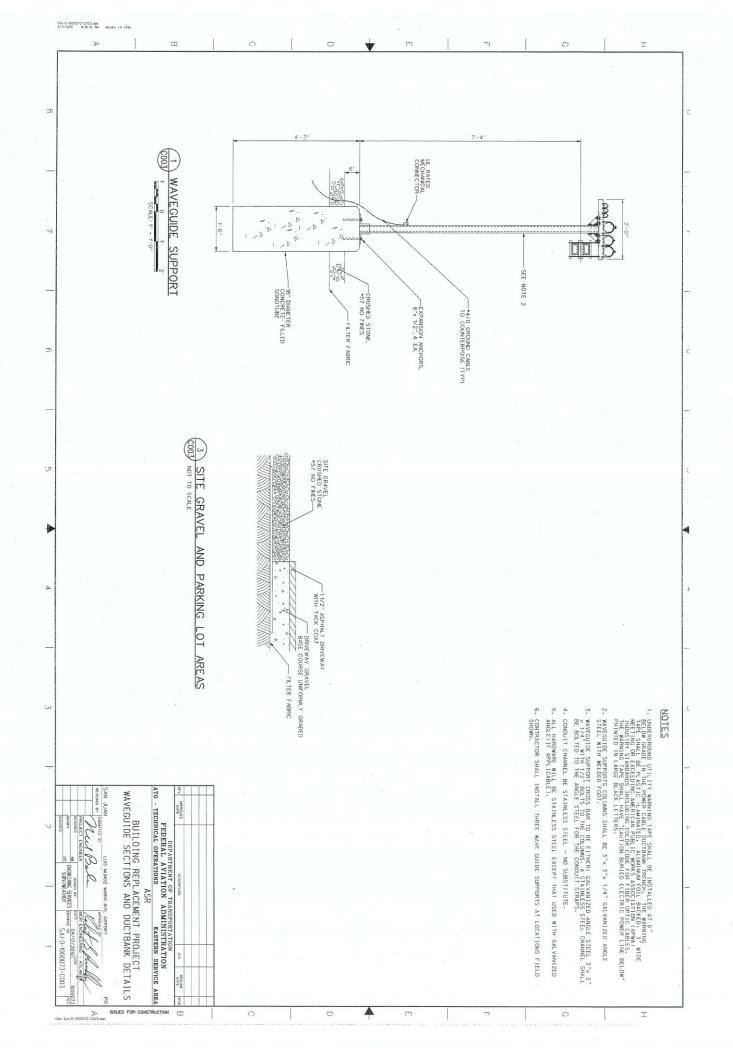


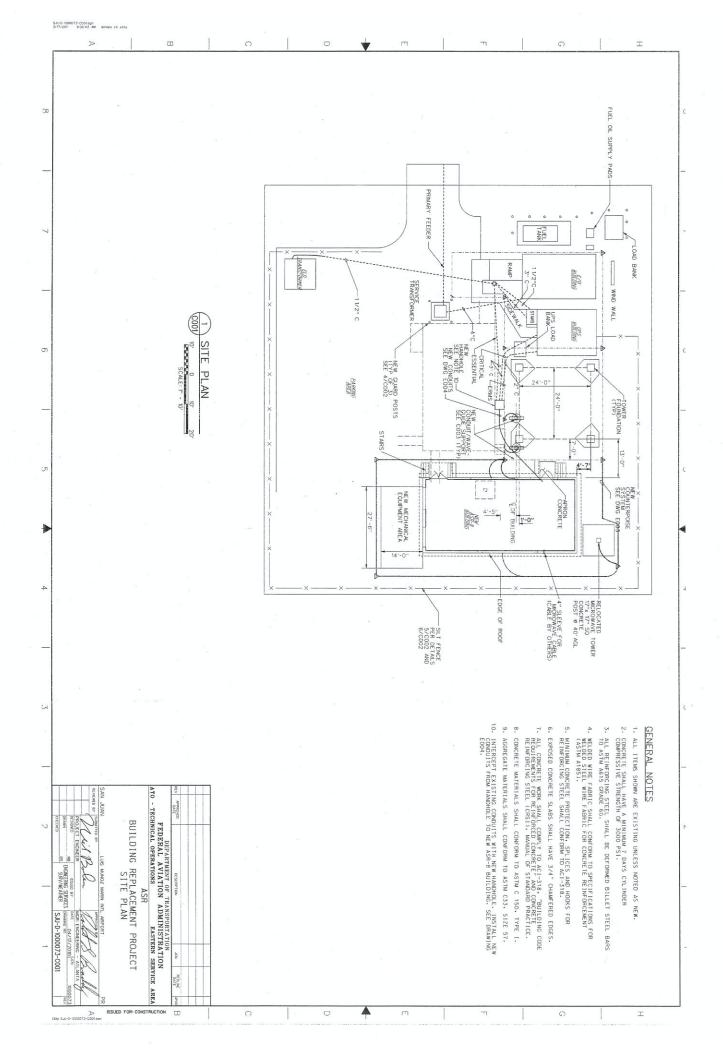


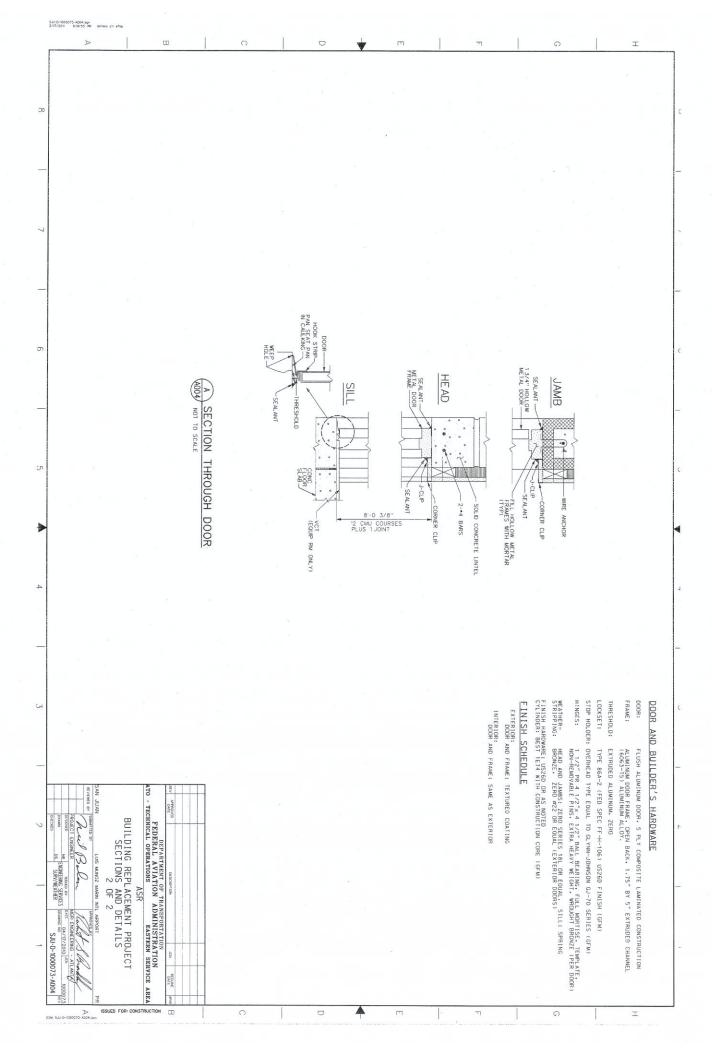


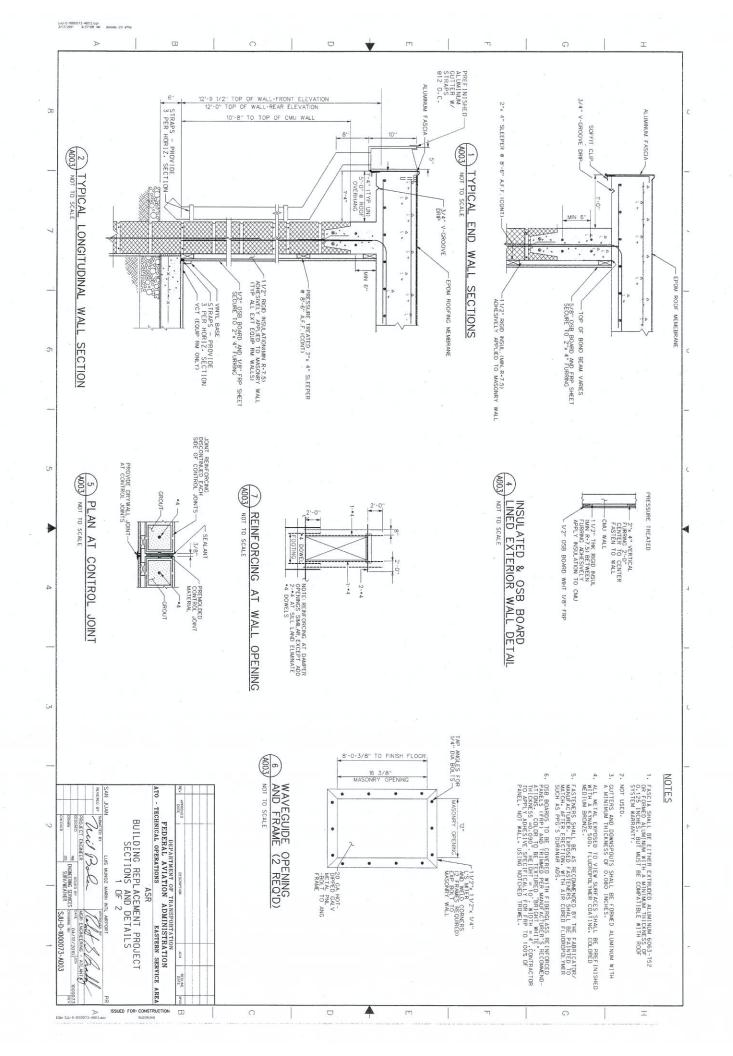


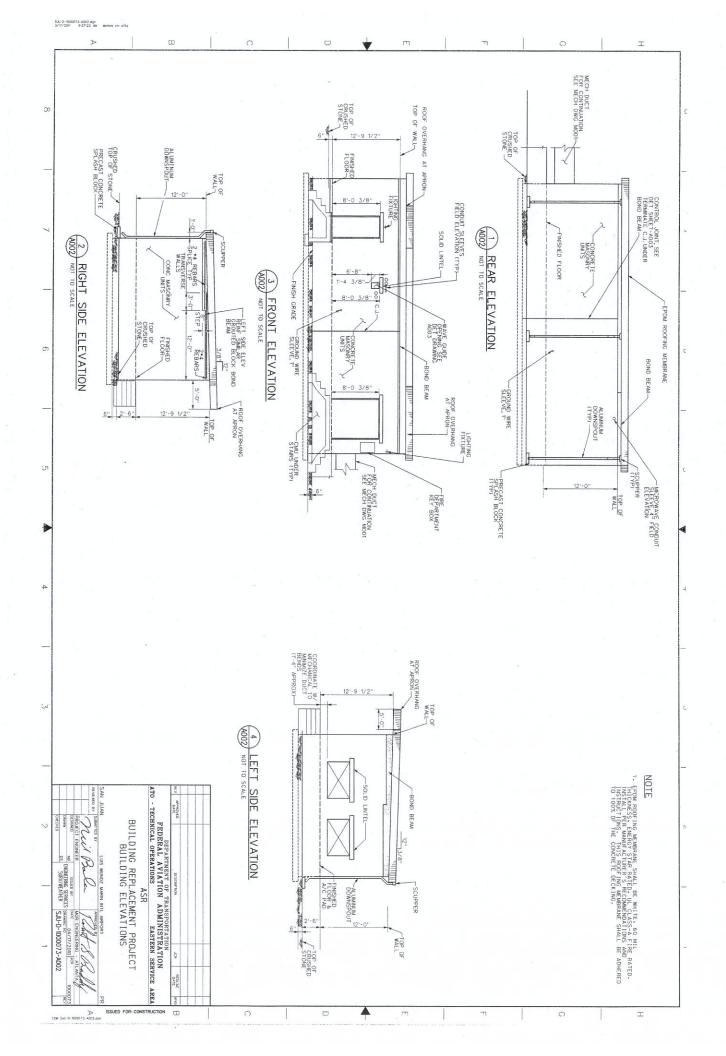


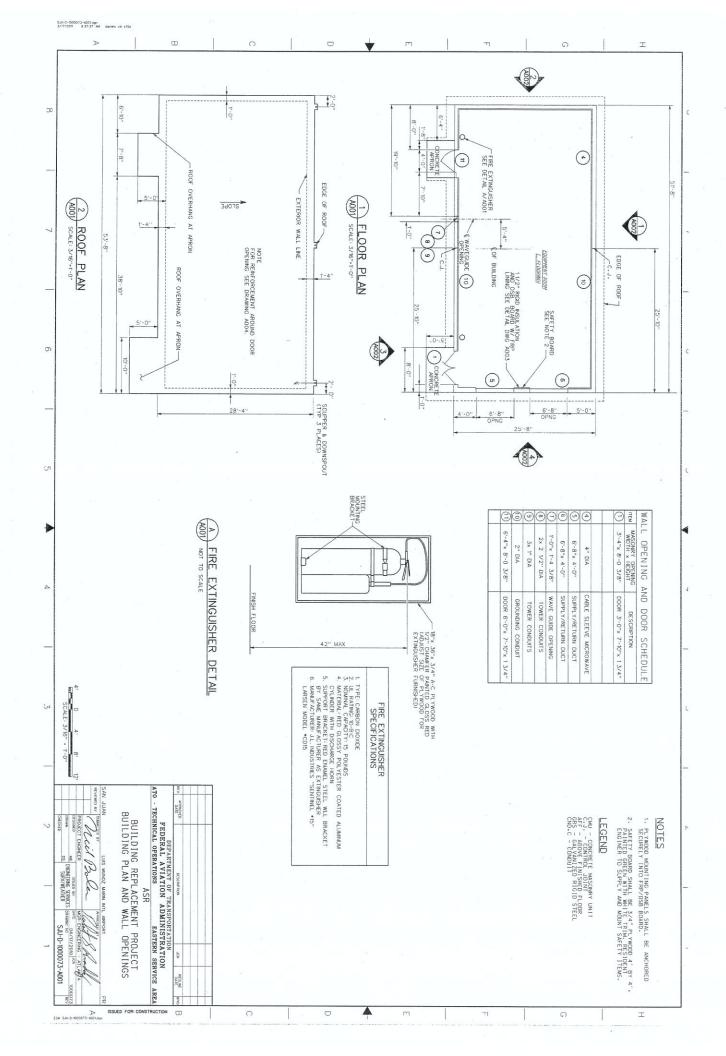


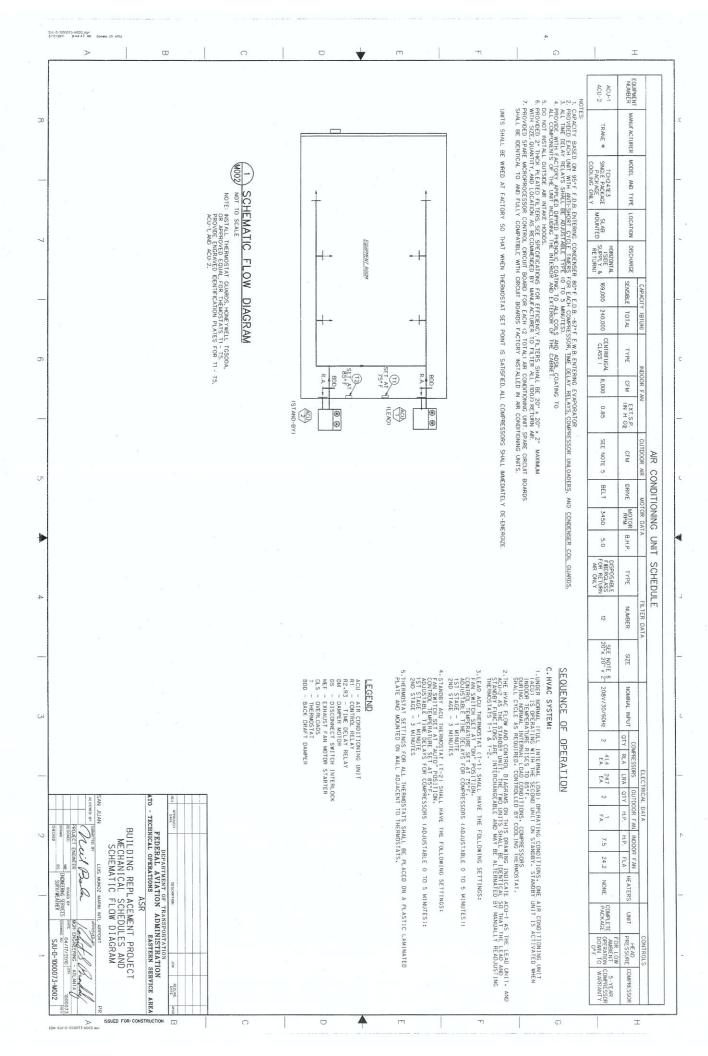


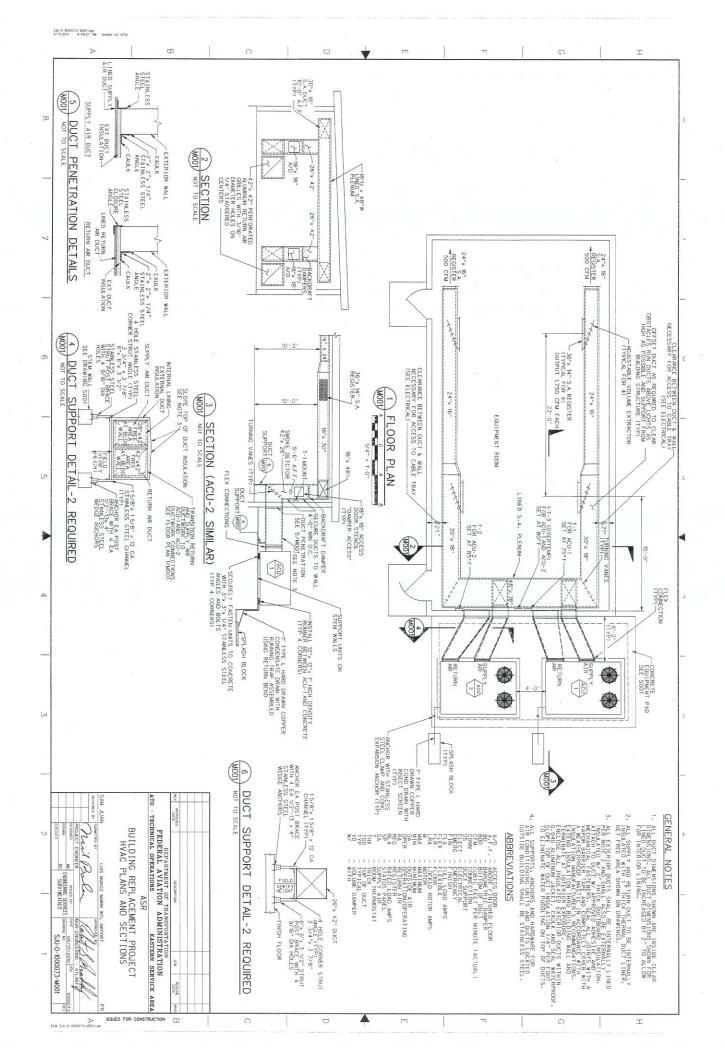


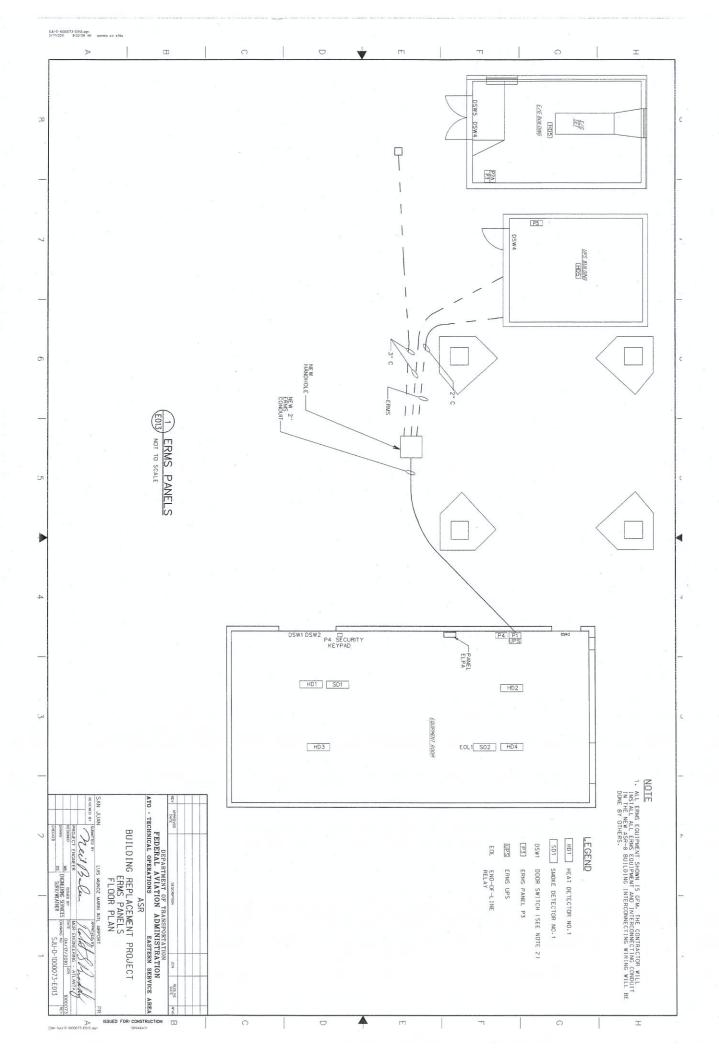


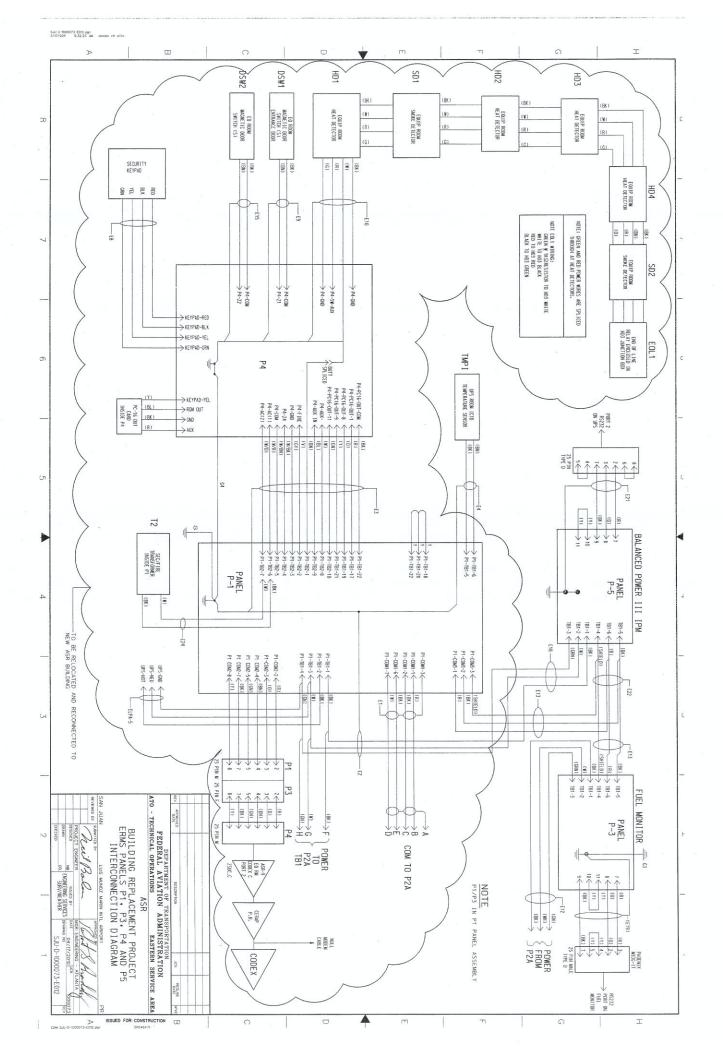


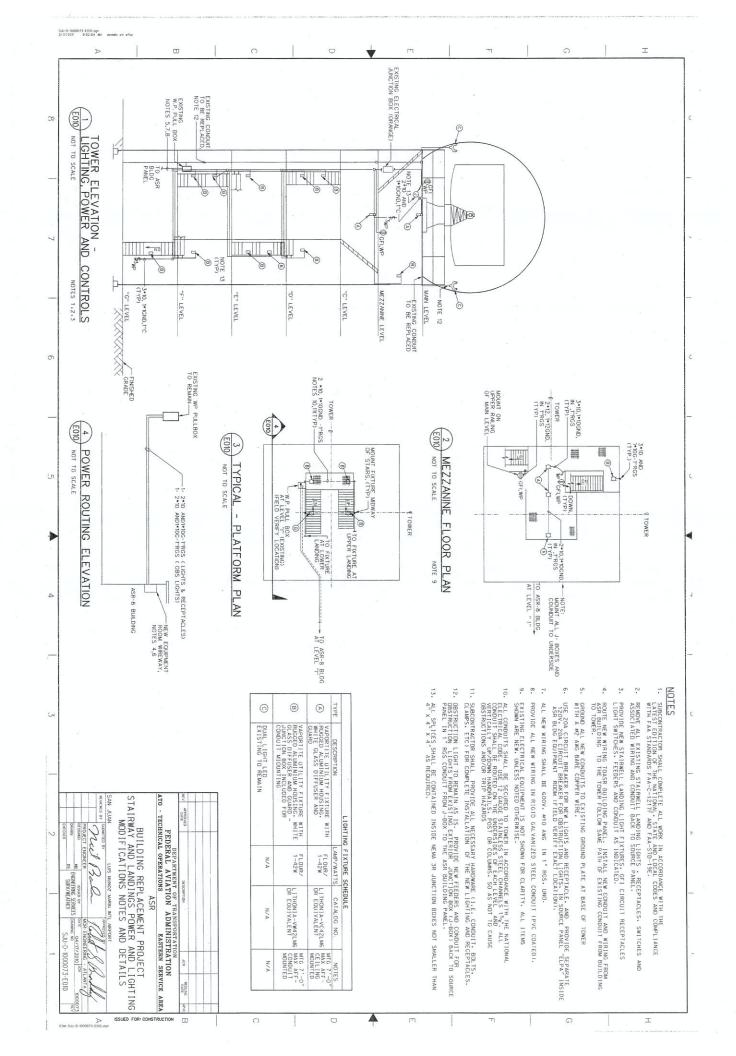


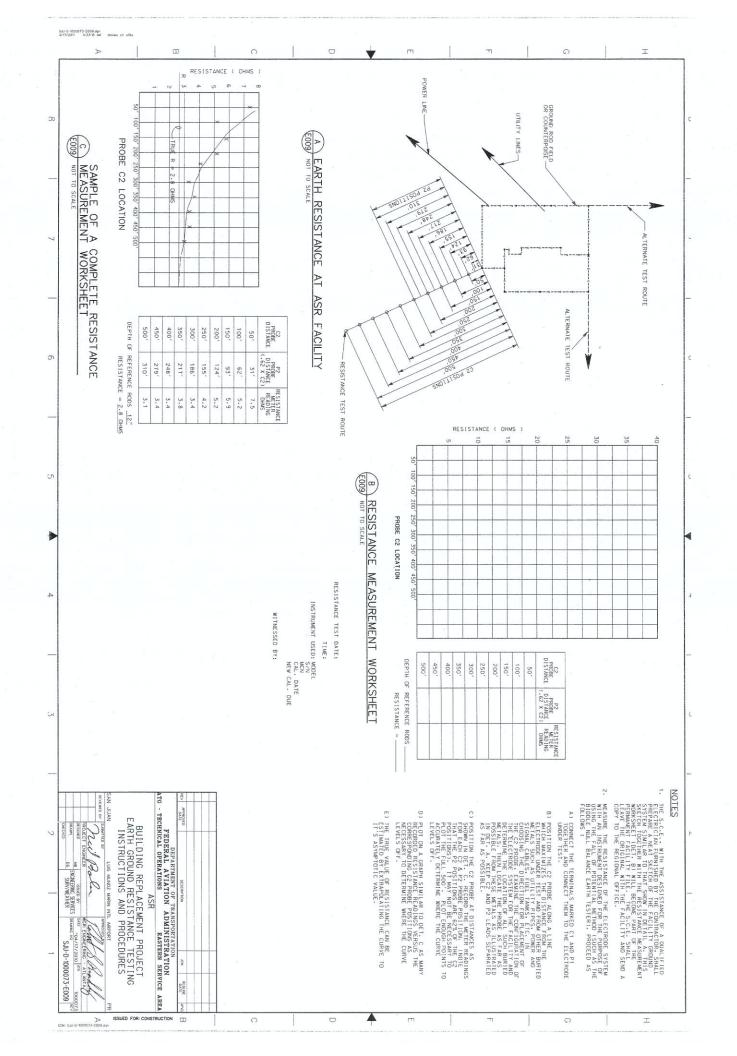


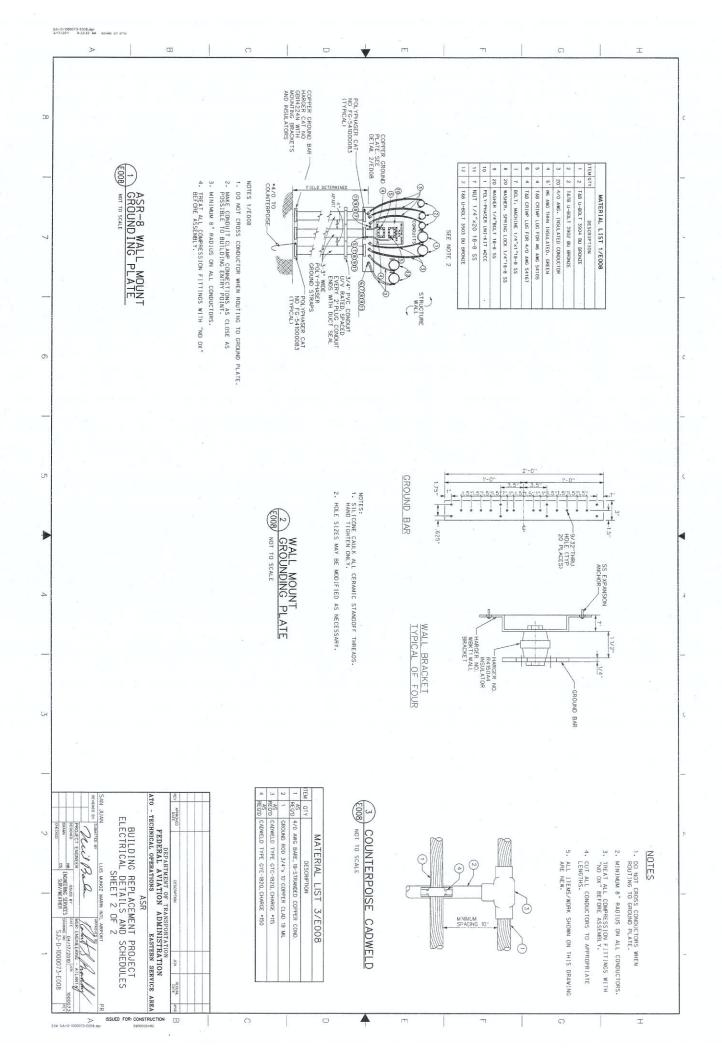


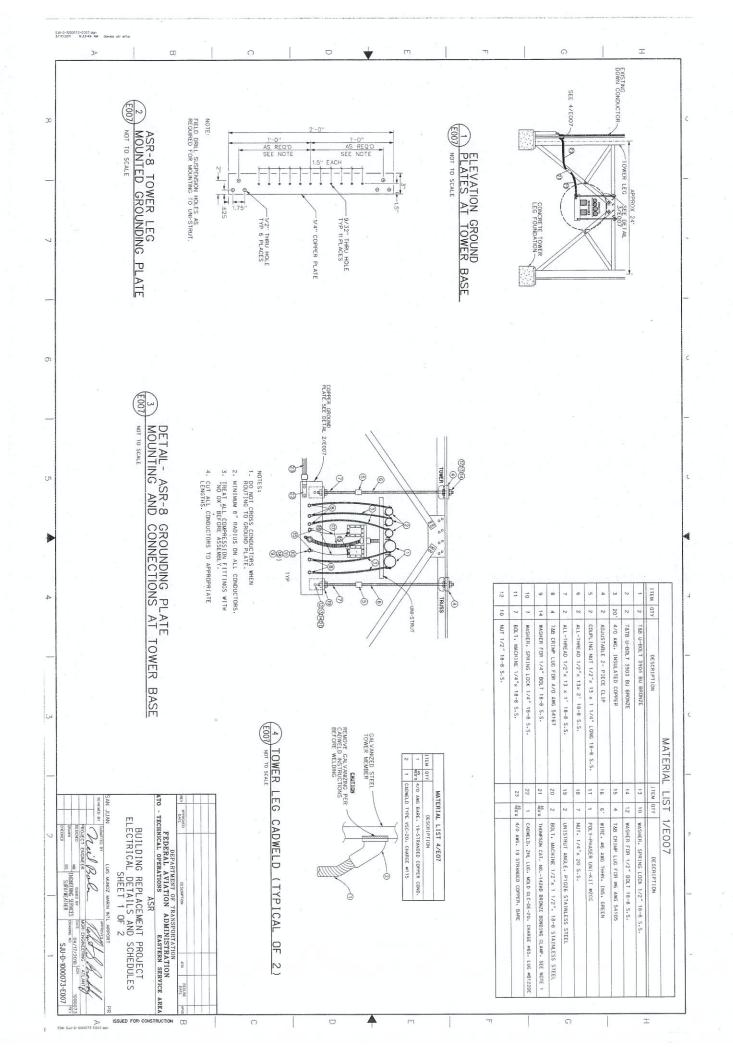


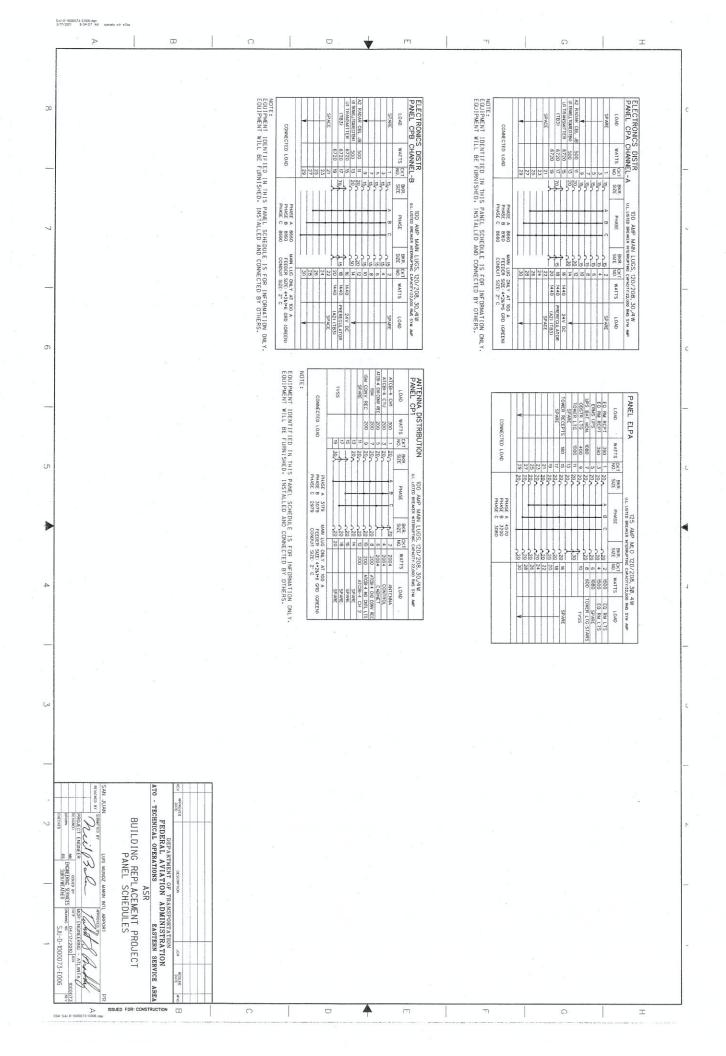


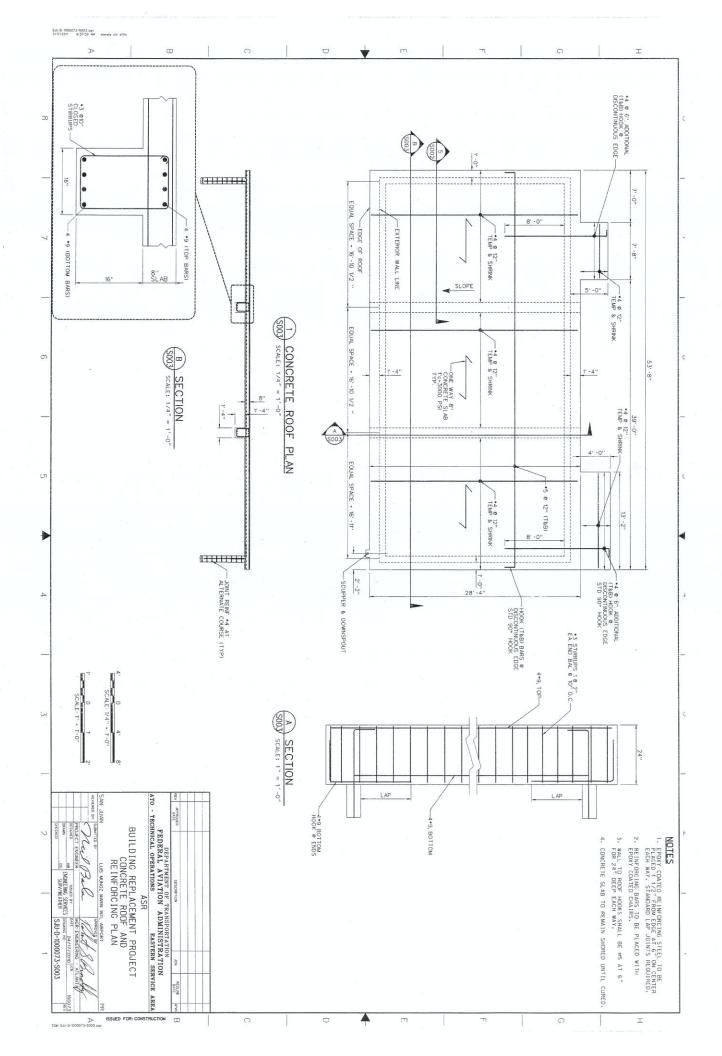


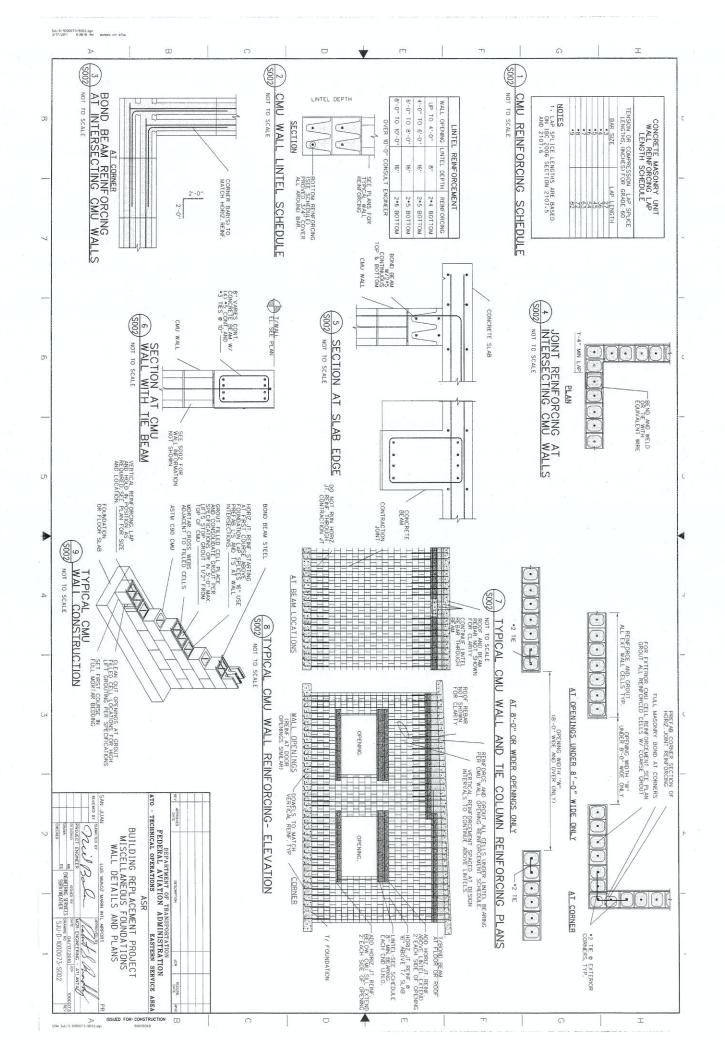












53U-0-1000075-5000.dgn 3/17/2011 9:36:47 AM donielo ctr sfito GENERAL NOTES GENERAL:
1. APPLICABLE CODES - LATEST EDITIONS STRUCTURAL SYSTEM: ORDINARY MASONRY REINFORCED SHEAR WALLS SOLIS: FOUNDATIONS ARE DESIGNED TO BE SUPPORTED BY SPREAD FOOTING AN ALLOWABLE SOIL BEACHING PRESSURE OF 1000 POUNDS PER SOLARE FOOT. SOIL BEARING FOOTS SHALL BE VERIFIED BY A FOOTS STEED SOILS ENGINEER AT THE TIME OF EXCANATION. ELEVATIONS GIVEN IN SPECIFICATION ARE FOR PURPOSES OF CONTRACT AND SHALL BE ADJUSTED AT THE TIME OF EXCANATION TO MEET ACTUAL SITE CONDITIONS. OTHED TRADES: SEE ARCHITECTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF PIPE. VENT, DUCT, AND OTHER OPENINGS AND DETAILS NOT SHOWN ON THESE STRUCTURAL DRAWINGS. ALL DIMENSIONS ARE TO BE CHECKED AND VERIFIED WITH THE ARCHITECTURAL DRAWINGS. EXCAVATION: CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING LAGGING. SHORING, DEWATERING, AND PROTECTION OF ADJACENT PROPERTY. STRUCTURES, STREETS, AND UTILITIES IN ACCORDANCE WITH THE LOCAL BUILDING DEPARTMENT. WIND: BASIC WIND SPEED 145 MPH. EXPOSURE C. IMPORTANCE FACTOR 1.15
BUILDING CATCORYS | V
INTERNAL PRESSURE COEFFICIENT. GCP1: 35/64 0.18
INTERNAL PRESSURE COEFFICIENT. GCP1: 35/64 0.18
COMPONENTS PAND CLADDING PRESSURES: (+) p2.45 P5/6 ()
DVERHANG 18: 0.0 P5/6 () EQUIPMENT AREA FLOORS
TYPICAL FLOORS, U.N.O.
ROOF
CONCENTRATED LOAD ON TREADS DESIGN LIVE LOADS: NOT TO BE REDUCED: INTERNATIONAL BUILDING CODE 2006
ASSE 7-05 MINIMAN DESIGN LONDS FOR BUILDINGS AND OTHER STRUCTURES
ASSE 7-05 MINIMAN DESIGN LONDS FOR BUILDING SOND CONCRETE
STEEL DEEX INSTITUTE STANDARD PRACTICE DETAILS SOND
ACI 338-05 / ASSE 5-05 / TMS 402-05 BUILDING CODE REQUIREMENTS FOR MASONRY DISCREPANCIES: CONTRACTOR SHALL VERIFY ALL DIMENSIONS, COMDITIONS, AND ELEVATIONS AT JOB SITE AND BRING TO THE ATTENTION OF FAA RESIDENT ENGINEER ANY DISCREPANCIES. 144 SOILS ENGINEER OR SOILS ENGINEER'S REPRESENTATIVE SHALL INSPECT ALL SUBGRADE PREPARATION WORK PRIOR TO PLACEMENT OF ANY REINFORCING SEELL OR CONCRETE. BASIC STRUCTURAL SYSTEM: ORDINARY REINFORCED CONCRETE SHEAR WALLS 20 150 | 100 | 30 | 300 LBS/4 SQ. PSF PSF D. E. REINFORCING STEEL: BUILDING ERECTION:

1. COMPACTOR SHALL BE RESPONSIBLE FOR DESIGN AND PROVISION OF ALL TEMPORATE OUTS. BRACING. AND OTHER SUPPORTS AS NEEDED TO SAFELY RESIST ALL LOADS TO WHICH STRUCTURE MAY BE SUBJECTED. INJUIDING, DOADS FROM REPORTING HOUSE FROM SECTION ROUTHERN AND OFFRATIONS. AND ALL WIND DESIGNED. COMPARABLE IN INTENSITY FOR WHICH STRUCTURE WAS DESIGNED. REINFORCING STEEL PROVIDED IN THE ABOVE REFERENCED SHOP DRAWINGS SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: CONCRETE CONSTRUCTION

1. ALL CONCRETE SHALL ATTAIN A MINIMUM 28-DAY COMPRESSIVE STRENGTH
ALL CONCRETE SHALL ATTAIN A MINIMUM 28-DAY COMPRESSIVE STRENGTH
MOTED OTHERWISE: MIXING AND PLACING OF ALL CONCRETE AND SELECTION OF MATERIALS SHALL
BE IN ACCORDANCE WITH ACT 301 NOW 318. CEMENT SHALL COMPORN TO 853M C150.
ALL CEMENT AND ACCRECATE FOR EXPOSE CONCRETE SUPERACES SHALL BE OF THE
SAME THYSE FORM THE SAME MANUFACTURING PLANT. REFER TO SPECIFICATION FOR
ADDITIONAL FOUREMENTS. PROVIDE A REVINATINED CONCRETE FOR ALL CONCRETE
EXPOSED TO MELTHER MIX DESIGNS SHALL BE SUBMITTED TO RESIDENT ENGINEER
PRIOR TO USE. ALL WELDED WIRE FABRIC SHALL BE LAPPED AT LEAST 12 INCHES. ALL REINFORRCEMENT BAR LAPS SHALL CONFRIN TO ACT CLASS "B" LAP REQUIREMENTS. STAGGER SPLICES WHEREVER POSSIBLE. REINFORCEMENT INCLUDING WELDED WIRE FABRIC SHALL BE POSITIVELY MAINTAINED IN THE POSITION SHOWN ON THE DAKENINGS AND SHALL BE MAINTAINED IN THE POSITION SHOWN OF THE PLACEMENT OF CONGRETE. PENETRATIONS: PENETRATIONS OTHER THAN SHOWN SHALL NOT BE ALLOWED WITHOUT PRIOR APPROVAL OF RESIDENT ENGINEER. PROVIDE CONCRETE HOUSEKEEPING PADS OR FUNDATIONS FOR MECHANICAL, FIRE PROVIDE CONCRETE HOUSEKEEPING ALL GUIDENENT. VERIFY NUMBER SIZE AND EXACT LOCATIONS OF PADS WITH RESPECTIVE SUBCONTRACTOR PRIOR TO INSTALLATION. INSTALL ALL BUILT-INS FURNISHED BY THE SUBCONTRACTORS OR INDICATED ON TRANSINGS. PROVIDE PIPE SLEYVES, AND INSERTS IN CONCRETE PER MECHANICAL, FIRE PROTECTION AND ELECTRICAL PRAWINGS AND SPECIFICATION.
AND ELECTRICAL PRAWINGS AND SPECIFICATION. MAINTAIN A MINIMAM OF 1-NICH CLEARANCE BETWEEN ALL PIPE SLEEVE AND BAR SPACE BLOCKONTS OR PRECAST INSERTS. PROVIDE A ADDITIONAL 55 REINOCREMENT BARS EVEN. YOUTHBUTTO ADDITION SLEEVE AND SAFE SPACE STATE AND ADDITIONAL STATE INFORMATION OF SLEEVE EXCEEDED ANOUND A SLEEVE AT EACH FACE OF MALL WHAY DUTSIDE DIAMETER OF SLEEVE EXCEEDED ANOUND A SLEEVE AND EXPENSE OF MALL WHAY DUTSIDE DIAMETER OF SLEEVE DIAMETER. CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN AND PROVISION OF ALL SHORING REQUIRED FOR TEMPORARY EARTH RETENTION. DESIGN OF SUCH SHORING SHALL BE BASED ON LATERAL EARTH PRESSURES GIVEN IN THE SOILS REPORT. WELDED WIRE FABRIC SHALL ONLY BE FLAT SHEETS. CONSTRUCTION JOINTS: ADDITIONAL CONSTRUCTION JOINTS OTHER THAN SHOWN SHALL HAVE PRIOR APPROVAL OF RESIDENT ENGINEER BEFORE INSTALLATION. NO ALUMINUM CONDUITS OR PIPES SHALL BE EMBEDDED IN CONCRETE WITHOUT AN APPROVED COATING. THE USE OF ALUMINUM PIPES OR CHUTES TO TRANSPORT CONCRETE WILL NOT BE PERMITTED. WHERE THE WEIGHT OF EQUIPMENT OR MATERIALS BEING TRANSPORTED TO LOCATION OR TEMPORARILY STORED EXCEEDS THE DESIGN LIVE LOAD. PLANKING SHALL BE PROVIDED ON THE FLOOR SLAB AND SHORING PROVIDED BENEATH THE FLOOR. PROVIDE A 3 TO 4-1NCH THICK MUD MAT OF LEAN CONCRETE BENEATH ALL BEARING SUPRACES TO PROTECT BEARING SOILS IF EXCAVATION REMAINS OVERNIGHT OR IF RAIN IS IMMINENT. PREPARE AND SUBMIT FOR APPROVAL TO RESIDENT ENGINEER SHOP DRAWINGS FOR RELIVEDED IN SECTION OF THE PROPERTY OF CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AFFECTING THE WORK AT THE JOB SITE. FOUNDATION
SLAB ON GRADE (S.D.G.)
ELEVATED CONCRETE SLAB REINFORCING STEEL, TYPICAL ASTM A615, GRADE 60, FY = 60 KSI WELDED WIRE FABRIC (WWF), ASTM A185, FY=65 KSI CONCRETE CAST AND EXPOSED TO EARTH.
CONCRETE EXPOSED TO EARTH OR WEATHER:

BAR DOS MANGER:

BAR DOS MANGER:

CONCRETE NOT EXPOSED TO EARTH OR WEATHER:

BAR DAS MALLER:

#11 OR SMALLER: 1-1/2" PS 3/4" HE 4. FIRE WALL PENETRATIONS: SEE SPECIFICATIONS FOR REQUIRED FIRESTOPPING INSTALLATION 1. PROVIDE OFFSETS AND TRANSITIONS AS REQUIRED TO COORDINATE WITH OTHER TRADES. COORDINATION WITH OTHER TRADES EQUIPMENT PADS: SEE MECHANICAL DETAILS FOR TYPICAL EQUIPMENT PADS PENETRATIONS THRU FLOOR GRATING: NOT ALL PENETRATIONS ARE SHOWN. FIELD CUTTING IS PERMISSIBLE. REINFORCE GRATING PER THE STRUCTURAL DETAILS. PENETRATIONS THRU PRECAST CONCRETE: FOR PENETRATIONS LESS THAN OR EQUAL TO SIX INCHES-NEATLY CORE DRILL. FOR PENETRATIONS GREATER THAN SIX INCHES-COORDINATE WITH STRUCTURAL PRECASTER. 1. COLD FORMED LIGHT GAGE METAL FRAMING: THAT BE DESIGNED AND SUPPLIED

1. ALL COLD FORMED LIGHT GAGE METAL FRAMING SHALL BE DESIGNED AND SUPPLIED

1. BY THE CONTRACTOR FOR ALL GRAVITY. LATERAL. AND GITHER LOADINGS INDICATED

BY BULLDING MATERIALS SHOWN ON ARCHITECTURAL DRAWINGS AND DESIGN LOADINGS

NOTED ON SODO. DESIGN SHALL BE DONE IN ACCORDANCE WITH PROVISIONS OF THE

LATEST BUTTON OF THE AIST THESE UND OF COLD TORNED STEEL STRUCTURAL MEDIES

EACHET THAT DEFLECTIONS SHALL BE CALCULATED USING FULL LOADS INSTEAD OF M. ALIMINIM ANCHORS, SHAPES, AND CONDUITS;

1. WHEER ALIMINIM ANCHORS, ALIMINIM SHAPES, OR ALIMINIM ELECTRICAL

1. CONDUITS ARE EMBEDDED IN CONCRETE, ALL CONTACT SHAPES SHALL BE PAINTED

WITH ZINC-PROMATE PRIMER, PAINT SHALL BE ALLODED TO DRY THOROUGHLY

BEFORE ALIMINUM IS PLACED IN CONTACT WITH THE CONCRETE. MASONARO 1. STANDARO HOLLOW CONCRETE BLOCK SHALL CONFORM TO ASTM C90 EXCEPT 1 THAT THE MAXIMUM MOISTUBE CONTENT SHALL NOT EXCEED 50% OF THE TOTAL ABSORPTION. COMPRESSIVE STRENGH (4" m) OF 2000 PS1. 2 2 6. 5. 4 2. 3. INSPECTION OF MASONRY UNITS ARE REQUIRED AS PER SPECIFICATION. REINFORCING STEEL (CONT.):

5. BAR SPLICES: ALL DOWEL AND LAP L
UNLESS NOTED OTHERWISE CONFRACT
AND SUBMIT TO RESIDENT ENGINEER
PLACEMENT OR REINFORCEMENT. 9 GAUGE LADDER-TYPE REINFORGING SHALL BE PROVIDED AT MAXIMUM OF 16" O.C. VERTICALLY U.N.O. MASONRY MORTAR SHALL CONFORM TO ASTM C270 AND BE TYPE M. GROUT SHALL CONFORM TO ASTM C476 WITH MINIMUM COMPRESSIVE STRENGTH OF 2500 PS1. INSPECTION OF MASONRY UNITS ARE REQUIRED AS PER SPECIFICATION. MASONRY MORTAR SHALL CONFORM TO ASTM C476 WITH MINIMUM COMPRESSIVE STRENGTH (f $^\prime$ m) OF 2000 PS1. HEIGHT OF GROUT LIFTS SHALL NOT EXCEED 4'-0". MASONRY UNIT SHALL BE LAID SO AS TO PROVIDE UNOBSTRUCTED VERTICAL CONTINUITY OF GROUT SPACE CONCRETE SHEAR ANCHORS SHALL CONFORM TO A.W.S. D1.1. TYPE REQUIREMENTS FOR STANDARD HEADED STUDS. FY = $60~\mathrm{KSI}$. ALMINIM SUPFACES TO BE PLACED IN CONTACT WITH CONCERTE, WOOD, OR MASONRY CONSTRUCTION. EXCEPT WHERE ALMINIMI IS TO BE EMECIDED IN CONCRETE, SHALL BE OVEN A HEAVY COATION AN KALL-RESISTANT BITUMINOUS PAINT BEFORE INSTALATION, PRINT SHALL BE APPLIED AS IT IS RECEIVED FROM THE MANUFACTURER WITHOUT THE ADDITION OF ANY THINNER. SUAP DRAWINGS AND SUPPORTING CALCULATIONS FOR COLD FORMED METAL FRAMING SHALL BE SEALED AND SIGNED BY A STRUCTURAL ENGINEER LICENSED IN THE STATE OF THE PROJECT. DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION
TECHNICAL OPERATIONS
EASTERN SERVICE AREA BUILDING REPLACEMENT PROJECT FOR THS SHALL BE AS GIVEN IN ACT 318-05
SHALL PREPARE LAP SPLICE TABLE
APPROVAL PRIOR TO ANY FIELD Bale NB ENGREERING SERVICES SURV/WEATHER UIS MUNOZ MARIN INTL GENERAL NOTES ASR SJU-D-1000073-S000 G NO A ISSUED FOR: CONSTRUCTION (0 > 0